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Programmable Room Thermostat

Installation and User Manual

Polypipe

PROGRAMMABLE ROOM THERMOSTAT

Overview

The Programmable Room Thermostat controls and regulates the room temperature. The thermostats should be positioned 1·2m from the floor and away from other heat producing appliances.

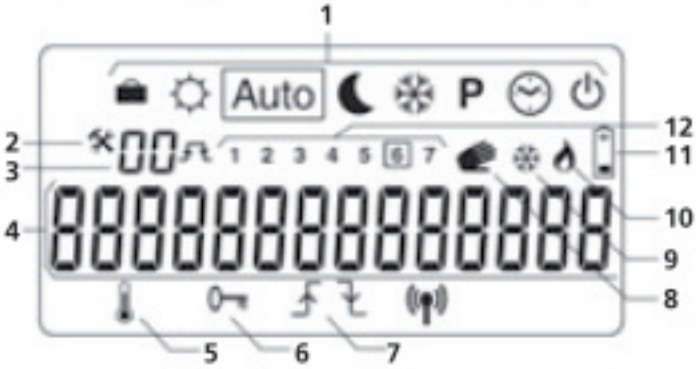
Note

Programmable Room Thermostats differ in operation from conventional Room Controls as they not only set a maximum room temperature but also set a minimum temperature that the room temperature is allowed to fall to. This is particularly important when controlling floor heating systems as the heating response is slower than that of conventional radiators.

Features

- 7 Day Programme
- 5 built in and 2 User Defined Programmes
- Holiday Function
- Frost Protection programme
- Battery replacement without loss of programme

Operating Instruction - Display



1. Function mode
2. Installer's or user's menu
3. Block number in programme mode Display running programme in AUTO mode
4. Display of temperature, task, hour or title of the parameter when "2" is indicated
5. The ambient temperature is indicated
6. Keyboard locked
7. Mode Auto
8. Temporary deviation
9. Cooling demand
10. Heating demand
11. Replace batteries
12. Days of the week

Quick Set-Up

Clock must be set first.
Use the ◄ and ► keys to change the mode

1 Setting the Time and Day

Push OK/i: the hour blinks, then you can adjust the hour by using + and − keys, press the OK/i key again: the day of the week blinks, you can choose the day now by using the ◄ and ►. For example: 1=Monday. Push the OK/i key to validate your adjustments.

2 P Choose a Programme for The Room

Push the OK/i key: the number of the current programme blinks.
– You can choose a programme now by using + and −. (P1 standard)
– By pressing the OK/i key, you can display the programme in case of a built-in programme (P1 to P5)
– By using + and − the programme operates between the temperatures Occupied Temperature (default 21°C) & The Setback Temperature (default 17°C)

Built-in programmes descriptions (see details page 6)

P1: Morning, evening and weekend
P2: Morning, noon, evening and weekend
P3: 7h - 19h (office) evening and weekend
P4: Weekend (secondary house)
P5: 8h - 19h, Saturday (shop)

3 Auto Set to Auto

Use the ◄ and ► keys to Auto Mode - After a few seconds the Room Temperature and Time will be displayed.

Operating Instructions of all Functions

Use the ◄ and ► keys to change the mode.

Mode HOLIDAYS

Use this function during a long absence. Use the keys + and − for controlling:
– The duration in hours «**H**» when it's less than 24h in days «**d**»
– The desired temperature for this period (adjustable between 5°C and 35°C). To exit the HOLIDAYS mode, set duration on «**no**».

Mode OCCUPIED

Use this function to set your installation in occupied mode. Use the keys + and − to adjust the occupied temperature. The «**occupied**» temperature of the thermostat is unlimitedly maintained. Push the OK/i for an instantaneous adjustment display (default setting: 21°C).

Auto Mode AUTO

The thermostat follows the chosen programme in accordance with the actual hour. By using the + and − keys you can adapt the temperature until the next change within the programme. The symbol is displayed.

Mode SETBACK TEMPERATURE

Using this function to put your installation in "setback temperature mode". Use the + and − keys to adjust the setback temperature. The «**setback**» temperature of the thermostat is unlimitedly maintained. Push the OK/i for an instantaneous adjustment display (default setting: 17°C)

Mode ANTI-FREEZE

Use this function if you want to protect your installation against frost. Use the + and − keys to adjust the anti-freeze temperature. The «**Anti-freeze**» temperature of the thermostat is OK/i unlimitedly maintained. Push the for an instantaneous adjustment display (default setting: 6°C)

Mode CLOCK ADJUSTMENT

Push OK/i: the hour blinks, then you can adjust the hour by using the + and − keys. Press the OK/i key again: the day of the week blinks, you can choose the day now by using the ◄ and ►. For example: 1=Monday. Push the OK/i key to Valid your adjustments.

Mode OFF

Use this function to switch off your installation. The programme's version is displayed for 5 seconds before the thermostat is switched off. Press 1 of the keys to restart the thermostat.

Mode PROGRAMME

Push the OK key: the number of the current programme blinks.
– You can choose a programme now by using + and −.
(default setting: P1)
– By pressing the OK key, you can display the programme in case of a built-in programme (P1 to P5) or you can create or adapt a user's programme (U1 and U2).
– The programme operates between the temperatures «**comfort**» and «**reduced**».

Built-in programmes descriptions:

P1: Morning, evening & weekend
P2: Morning, noon,evening and weekend
P3: 7h - 19h (office) evening and weekend
P4: Weekend (secondary house)
P5: 8h - 19h, Saturday (shop)

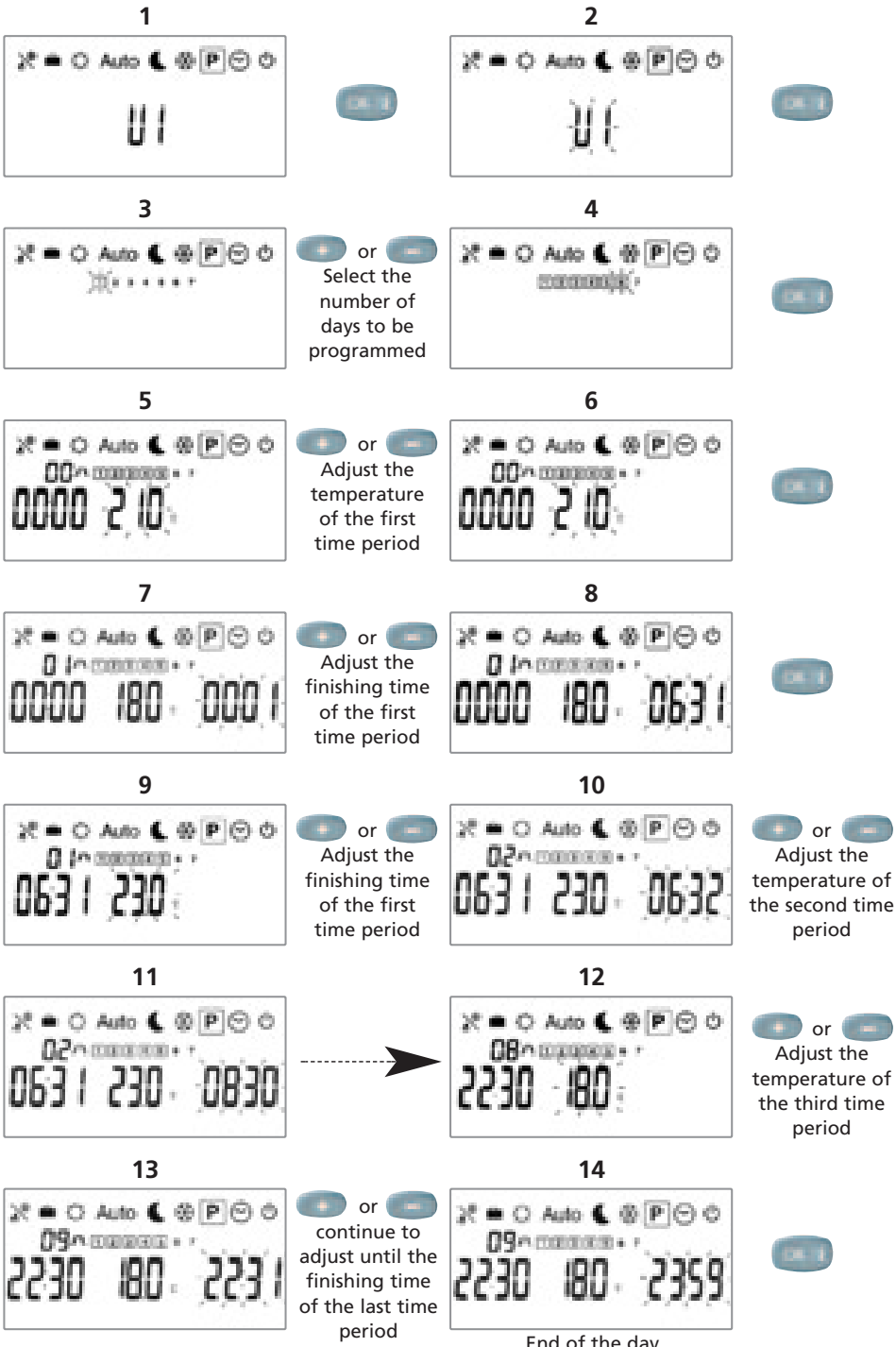
Keyboard Lock & Unlock Function

In Auto, ☼, ☾, ❄ modes, you can lock the keyboard by pushing on the OK key then − key, a 🔑 appears.
To unlock, push the OK key then − key (🔑 disappears)

How can you create or change a user's programme (U1 or U2)

Number of the programme during the day
Starting hour of the programme
Identical days
Finishing hour of the programme
Temperature of the programme
0000 180 0631

Select one of the user's programme's U1 or U2 by using + and −.



To programme the remaining days, repeat step «**4**» to «**14**» and this for all the days of the week. *(You can only leave the programme mode if all days have been filled in). Once you have run through the whole programming, you only have to put the thermostat in the mode Auto

Installing the Wet Room Sensor (P23020)

Where time and temperature control needs to be applied to a bathroom or wet area, the wet area sensor can be installed within the wet room and connected to the programmable Room Thermostat installed in an adjacnet dry area.

As shown

The Sensor can either remain in the supplied housing and be wall mounted or be removed from the housing and be used as a floor surface sensor.

To Enable the Room Thermostat to operate from the sensor only, you need to enable the User Menu.

Your Thermostat has two menus with parameters:

To Enter these Menus go to [briefcase] and keep the ◄ pressed.

The first Menu will show – 🛠01

Keep ◄ pressed and the display will show – 🛠11

Use the ► key until – 🛠14 SENSOR Air.

Use + to change to SENSOR FLor The Wet Room Sensor is now being used.

You do NOT need to press OK/i but keep pressing ► until – 🛠29 END then press OK/i.

INSTALLER'S PARAMETERS Menu 1 and 2

(Clock must be set first)

Your thermostat has 2 menus with parameters.

In order to enter a menu, use ◄, and select [briefcase].

The first menu (Installer Menu 1) is meant for initial setup.

Keep pushing the ◄ key for 5 seconds.

The second menu (Installer Menu 2) is meant for fine tuning of the system setup.

Keep pushing the ◄ key for 10 seconds.

Once you have chosen a menu, go the the parameter which you can change by using ◄ and ► .

Use the + and − keys to modify and confirm with OK/i.

To leave either menu, choose «**End**» and push OK/i.

*When pushing OK/i for a longer period in one of the function modes, the hour and programmes U1 and U2 will be set on `0´.

Parameters		INSTALLER'S MENU 1		
number	name	Description of the parameter	Factory value	Other possibility
01	**°C °F**	Select a type "°" on the display	**°C**	**°F**
02	**12H 24H**	Select type of hour. 12H - 24H time period	**24H**	**12H** (AM/PM)
03	**CAL Air**	Calibration of the internal probe (The calibration must be done after 12H working with the same setting temperature. Check the room temperature with a thermometer and enter the reel value)	Air sensor **+ 0°C**	From **-5°C** to **+5°C**
04	**CAL FLor**	Calibration of the external probe (if connected) (The calibration must be done same as above)	Floor Sensor **+ 0°C**	From **-5°C** to **+5°C**
09	**End**	Installer's Menu 1	Press OK / I	

Parameters		INSTALLER'S MENU 2		
number	name	Description of the parameter	Factory value	Other possibility
11	**ItCS**	This automatic control system works in the following way: Intelligent Temperature Control System will activate your installation in advance to assure the desired temperature at the hour programmed following your weekly programme.	**«Yes»** Function active	**«no»** Function not active
12	**Out**	Type of output	**«nC»** Normally closed	**«no»** Normally open
13	**PUMP**	Anti-lock-braking function of the pump. When the pump hasn't worked on a particular day, start it up for one minute each day.	**«Yes»** Function active	**«no»** Function not active
14	**SEnSOR**	Selection of the sensor for regulation	**«Air»** or Room Sensor with floor limitation if floor sensor connected	**«Flor»** Floor sensor only
15	**rEGUL**	Selection of regulation type	**«bp»** Proportional band	**«hyst»** Static differential of 0·5°C
16	**t Cy**	Selection of the proportional band duration in minutes	**«15»** Slow system adapted to each heating type	Heating Application Burner oil «**20**» Burner gas «**10**» Zone valve «**10**» Heat pump «**20**» Ventilo convector «**10**»

Parameters		INSTALLER'S MENU 2		
number	name	Description of the parameter	Factory value	Other possibility
17	**t on**	Minimal starting time in minutes	**«002»**	Adjustable **0** to **5** in case of an installation with burner or heat pump, it is recommended to adjust value «**3**»
18	**t off**	Minimal resting time between 2 heating cycles in minutes	**«002»**	Adjustable **0** to **5** in case of an installation with burner or heat pump, it is recommended to keep value «**3**»
19	**bP**	Value of the proportional band	**«002»**	Adjustable 1°C to +4°C A well insulated house «**1·5C**» A not insulated house «**4C**»
20	**CP**	Compensating value	**«0·0°C»**	Adjustable 1°C to 12·7°C Increase the value according to the current load
21	**FLorLi Lo**	Lower limit of the floor temperature. Only effective if the external probe is connected and selected.	**«18°C»**	From 5°C to «**FLorLi.Hi**»
22	**FLorLi Hi**	Upper limit of the floor temperature. Only effective if the external probe is connected and selected.	**«35°C»**	From «**FLorLi.Lo**» to 37°C
23	**reset ALL**	All parameters are reloaded with default setting values	Press OK / i during a few seconds	
29	**End**	To exit the installer's menu	Press OK / i	

Preset Programme Times Programmable Room Thermostat

PROGRAM	DAY	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
P1 Morning, Evening and Weekend																									
P1,1	Monday	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0
P1,2	Tuesday	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0
P1,3	Wednesday	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0
P1,4	Thursday	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0
P1,5	Friday	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0
P1,6	Saturday	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
P1,7	Sunday	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
P2 Morning, Mid-day, Evening and Weekend																									
P2,1	Monday	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	1	1	1	1	0
P2,2	Tuesday	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	1	1	1	1	0
P2,3	Wednesday	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	1	1	1	1	0
P2,4	Thursday	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	1	1	1	1	0
P2,5	Friday	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	1	1	1	1	1	0
P2,6	Saturday	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
P2,7	Sunday	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
P3 07-00 - 19-00 (Office)																									
P3,1	Monday	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
P3,2	Tuesday	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
P3,3	Wednesday	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
P3,4	Thursday	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
P3,5	Friday	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
P3,6	Saturday	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P3,7	Sunday	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P4 08-00 - 19-00 (Shop)																									
P4,1	Monday	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	
P4,2	Tuesday	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
P4,3	Wednesday	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
P4,4	Thursday	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
P4,5	Friday	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
P4,6	Saturday	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
P4,7	Sunday	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P5 Weekend (Second Dwelling)																									
P5,1	Monday	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P5,2	Tuesday	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P5,3	Wednesday	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P5,4	Thursday	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P5,5	Friday	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
P5,6	Saturday	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
P5,7	Sunday	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

The OFF times are night set back times and temperature (factory set at 17°C)

The ON times are comfort temperatures (factory set at 21°C)

The Frost protection setting (factory set at 6°C)

Clock Setting (Time of Day)

P — Program setting Mode (P1 - P5 plus U1 - U4 four user defined settings)

Auto — Automatic Operating Mode

Programmable Room Thermostat

Polypipe Building Products

Broomhouse Lane
Edlington
Doncaster DN12 1ES
Tel: 01709 770 000
Fax: 01709 770 001

www.ufch.com

2410 London Road
Mount Vernon
Glasgow G32 8XZ
Tel: 0141 778 8822
Fax: 0141 778 2703

Dromore Road
Lurgan, Craigavon
Co. Armagh BT66 7HL
Tel: 028 38 881270
Fax: 028 38 882344

www.polypipe.com

Polypipe